Process and device for producing gasoline, kerosene and diesel oil from waste plastic, rubber and machine oil

Abstract of the Disclosure

A process for producing oil product from waste materials including plastic, rubber and machine oil, includes the steps of: mixing waste raw materials with quartz and sand in a cracker and catalytically cracking a mixture of the waste raw materials, quartz, and sand at a cracking temperature initially starting from 50°C to 480°C to accelerate a cracking process of the waste raw materials in the cracker, wherein a cracked gas is start to be produced at the cracking temperature; further catalytically cracking the cracked gas collected from the cracker in a fixed bed to obtain an oil stream; fractionating the oil stream to collect fractions of gasoline, kerosene and diesel oil at a fractionating tower; and treating fractions of gasoline, kerosene and diesel oil respectively to produce the high quality oil product in a relatively short cycle of production.